Attorney Docket No.: 6116.200-US

Application No.: 09/757,788

Filed: January 10, 2001

Inventors: Keith Anderson et al.

Express Mail Label No.: EV 732211985 US

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of the claims in the

application:

**Listing of Claims** 

Claim 1 (Previously presented) A liquid formulation suitable for pulmonary administration to a subject,

said formulation comprising a GLP-1 compound having attached thereto a lipophilic substituent

comprising 14-18 carbon atoms, where said attachment of said lipophilic substituent to said GLP-1

compound is optionally via a spacer and wherein said formulation upon nebulization achieves a mass

median aerodynamic diameter of less than 10 um.

Claim 2 (Previously presented) The formulation of claim 1 wherein said GLP-1 compound to which a

lipophilic substituent is attached is exendin or an analog thereof or a GLP-1 analogue.

Claim 3 (Previously presented) The formulation of claim 2 wherein said GLP-1 compound to which a

lipophilic substituent is attached is exendin-3, exendin-4 or Arg<sup>34</sup>-GLP-1(7-37)-OH.

Claim 4 (Cancelled)

Claim 5 (Previously presented) The formulation of claim 1 wherein said lipophilic substituent is

hexadecanoyl.

Claim 6 (Previously presented) The formulation of claim 1 wherein a spacer is present.

Claim 7 (Previously presented) The formulation of claim 6 wherein said spacer is γ-Glu or β-Ala.

Claim 8 (Previously presented) The formulation of claim 1 wherein said GLP-1 compound with a

lipophilic substituent attached via a spacer is  $Arg^{34}Lys^{26}(N^{\epsilon}-(\gamma-glutamyl(N^{\alpha}-hexadecanoyl)))$ -GLP-1(7-

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37)-OH, Arg<sup>18</sup>, Leu<sup>20</sup>, Gln<sup>34</sup>, Lys<sup>33</sup> (N<sup> $\epsilon$ </sup>-( $\gamma$ -aminobutyroyl(N $^{\alpha}$ -hexadecanoyl))) Exendin-4-(7-45)-NH<sub>2</sub> or Arg<sup>33</sup>, Leu<sup>20</sup>, Gln<sup>34</sup>, Lys<sup>18</sup> (N<sup> $\epsilon$ </sup>-( $\gamma$ -aminobutyroyl(N $^{\alpha}$ -hexadecanoyl))) Exendin-4-(7-45)-NH<sub>2</sub>.

Claims 9-14 (Cancelled)

Claim 15 (Previously presented) The formulation of claim 1, wherein said formulation is a solution or a suspension.

Claim 16 (Previously presented) The formulation of claim 1, wherein said formulation includes between 0.1 to 100 mg/ml of said GLP-1 compound.

Claim 17 (Cancelled)

Claim 18 (Previously presented) The formulation of claim 1, wherein said formulation upon nebulization achieves a mass median aerodynamic diameter of between 1-5 um.

Claim 19 (Previously presented) The formulation of claim 1, wherein said formulation upon nebulization achieves a mass median aerodynamic diameter of between 1-3 um.

Claim 20 (Cancelled)

Claim 21 (Previously presented) The formulation of claim 27, wherein said formulation contains between 50-100 % w/w of said GLP-1 compound.

Claim 22 (Previously presented) The formulation of claim 27, wherein said formulation contains between 75-100 % w/w of said GLP-1 compound.

Claim 23 (Previously presented) The formulation of claim 27, wherein said formulation contains between 90-100 % w/w of said GLP-1 compound.

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Claim 24 (Cancelled))

Claim 25 (Previously presented) The formulation of claim 27, wherein said formulation contains a mass median aerodynamic diameter of aerosol particles of between 1-5 um.

Claim 26 (Previously presented) The formulation of claim 27, wherein said formulation contains a mass median aerodynamic diameter of aerosol particles of between 1-3 um.

Claim 27 (Previously presented) A dry formulation suitable for pulmonary administration to a subject, said formulation comprising a GLP-1 compound having attached thereto a lipophilic substituent comprising 14-18 carbon atoms, where said attachment of said lipophilic substituent to said GLP-1 compound is optionally via a spacer and wherein said formulation contains a mass median aerodynamic diameter of aerosol particles of less than 10 um.